

[0039] What is claimed is:

1. A bale of elastomer composite comprising elastomer composite pieces, wherein the elastomer composite pieces comprise an elastomer and filler, and wherein the bale has a void volume of at least 3%.

- 2. A bale of elastomer composite in accordance with claim 1, wherein the bale has a void volume of approximately 3% to approximately 40%.
- 3. A bale of elastomer composite in accordance with claim 1, wherein the elastomer composite pieces have a generally planar form.
- 4. A bale of elastomer composite in accordance with claim 1, wherein the elastomer composite pieces have the form of short strips.
- 5. A bale of elastomer composite in accordance with claim 4, wherein the short strips are approximately 40 mm to 60 mm long, approximately 5mm to 10 mm wide, and approximately 5 mm to 10 mm thick.
- 6. A bale of elastomer composite in accordance with claim 1, wherein the elastomer composite pieces have the form of pellets.
- 7. A bale of elastomer composite in accordance with claim 6, wherein the pellets have a diameter of approximately 5 mm to 10 mm and a length of approximately 10 mm to 30 mm.
- 8. A bale of elastomer composite in accordance with claim 1, wherein the elastomer composite pieces have a Mooney viscosity of at least 100.
- 9. A method of producing a bale of elastomer composite, comprising the steps of:
 mixing an elastomer latex with a filler to form an elastomer composite;
 treating the elastomer composite to form elastomer composite pieces; and
 forming the elastomer composite pieces into a bale having a void volume of at least 3%.
- 10. A method of producing a bale of elastomer composite in accordance with claim 9, wherein the bale has a void volume of approximately 3% to approximately 40%.

- 11. A method of producing a bale of elastomer composite in accordance with claim 9, wherein the elastomer composite pieces have a Mooney viscosity of at least 100.
- 12. A method of producing a bale of elastomer composite in accordance with claim 9, wherein the elastomer composite pieces have a generally planar form.
- 13. A method of producing a bale of elastomer composite in accordance with claim 9, wherein the elastomer composite pieces have the form of short strips.
- 14. A method of producing a bale of elastomer composite in accordance with claim 13, wherein the short strips are approximately 40 mm to 60 mm/long, approximately 5 mm to 10 mm wide, and approximately 5 mm to 10 mm thick.
- 15. A method of producing a bale of elastomer composite in accordance with claim 9, wherein the elastomer composite pieces have the form of pellets.
- 16. A method of producing a bale of elastomer composite in accordance with claim 15, wherein the pellets have a diameter of approximately 5 mm to 10 mm and a length of approximately 10 mm to 30 mm.
- 17. A method of producing a bale of elastomer composite in accordance with claim 9, wherein the step of treating the elastomer composite is performed using a granulator.
- 18. A method of producing a bale of elastomer composite in accordance with claim 9, wherein the step of treating the elastomer composite is performed using a pelletizer.
- 19. A method of producing a bale of elastomer composite in accordance with claim 9, further including the step of passing the elastomer composite through an open mill to form a sheet of elastomer composite prior to the step of treating the elastomer composite.
- 20. A method of producing a bale of elastomer composite in accordance with claim 9, wherein the step of forming the elastomer composite pieces into a bale is by compression.
- 21. A method of producing an elastomer composite blend, the method comprising:

blending a bale of elastomer composite pieces having a void volume of at least 3% with additional elastomer material comprising at least additional elastomer, to form an elastomer composite blend.

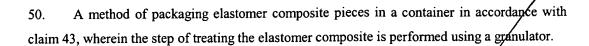
- 22. A method of producing an elastomer composite blend in accordance with claim 21, where the elastomer composite pieces are prepared by the steps comprising mixing an elastomer latex with a filler form an elastomer composite and treating the elastomer composite to form elastomer composite pieces.
- 23. A method of producing an elastomer composite blend in accordance with claim 21, wherein the bale has a void volume of approximately 3% to approximately 40%.
- 24. A method of producing an elastomer composite blend in accordance with claim 21, wherein the elastomer composite pieces have a Mooney viscosity of at least 100.
- 25. A method of producing an elastomer composite blend in accordance with claim 21, wherein the additional elastomer comprises elastomer different from the elastomer of the elastomer composite.
- 26. A method of producing an elastomer composite blend in accordance with claim 21, wherein the step of blending the bale of elastomer composite with the additional elastomer material comprises dry mixing the bale of elastomer composite with the additional elastomer material.
- 27. A method of producing an elastomer composite blend in accordance with claim 21, wherein the additional elastomer material comprises additional filler.
- 28. A method of producing an elastomer composite blend in accordance with claim 21, wherein the bale of elastomer composite includes at least one additive selected from the group consisting of: antiozonants, antioxidants, plasticizers, processing aids, resins, flame retardants, extender oils, lubricants, sure activators, and combinations thereof.
- 29. A method of producing an elastomer composite blend in accordance with claim 21, wherein the elastomer composite pieces have the form of short strips.

- 30. A method of producing an elastomer composite blend in accordance with claim 21, wherein the elastomer composite pieces have the form of pellets.
- 31. A method of producing an elastomer composite blend in accordance with claim 21, wherein the step of treating the elastomer composite is performed using a granulator.
- 32. A method of producing an elastomer composite blend in accordance with claim 21, wherein the step of treating the elastomer composite is performed using a pelletizer.
- 33. A method of producing an elastomer composite blend in accordance with claim 21, further including the step of passing the elastomer composite through an open mill to form a sheet of elastomer composite prior to the step of treating the elastomer composite.
- 34. A container wherein at least a portion of the container is occupied by elastomer composite pieces comprising an elastomer and filler, and wherein the occupied portion of the container has a void volume of at least 3%.
- 35. A container in accordance with claim 34, wherein the occupied portion of the container has a void volume of approximately 3% to approximately 40%.
- 36. A container in accordance with claim 34, wherein the elastomer composite pieces have a Mooney viscosity of at least 100.
- 37. A container in accordance with claim 34, wherein the elastomer composite pieces have a generally planar form.
- 38. A container in accordance with claim 34, wherein the elastomer composite pieces have the form of short strips.
- 39. A container in accordance with claim 38, wherein the short strips are approximately 40 mm to 60 mm long, approximately 5 mm to 10mm wide, and approximately 5 mm to 10 mm thick.
- 40. A container in accordance with claim 34, wherein the elastomer composite pieces have the form of pellets.

- 41. A container in accordance with claim 40, wherein the pellets have a diameter of approximately 5 mm to 10 mm and a length of approximately 10 mm to 30 mm.
- 42. A container in accordance with claim 34, wherein the container is a bag, a drum, or a box.
- 43. A method of packaging elastomer composite pieces in a container wherein at least a portion of the container is occupied by elastomer composite pieces comprising the following steps:

mixing an elastomer latex with filler to form an elastomer composite; treating the elastomer composite to form elastomer composite pieces; and packaging the elastomer composite pieces in a container such that the occupied portion of the container has a void volume of at least 3%.

- 44. A method of packaging elastomer composite pieces in a container in accordance with claim 43, wherein the occupied portion of the container has a void volume of approximately 3% to approximately 40%.
- 45. A method of packaging elastomer composite pieces in a container in accordance with claim 43, wherein the elastomer composite pieces have a generally planar form.
- 46. A method of packaging elastomer composite pieces in a container in accordance with claim 43, wherein the elastomer composite pieces have the form of short strips.
- 47. A method of packaging elastomer composite pieces in a container in accordance with claim 46, wherein the short strips are approximately 40 mm to 60 mm long, approximately 5 mm to 10mm wide, and approximately 5 mm to 10 mm thick.
- 48. A method of packaging elastomer composite pieces in a container in accordance with claim 43, wherein the elastomer composite pieces have the form of pellets.
- 49. A method of packaging elastomer composite pieces in a container in accordance with claim 48, wherein the pellets have a diameter of approximately 5 mm to 10 mm and a length of approximately 10 mm to 30 mm.



- 51. A method of packaging elastomer composite pieces in a container in accordance with claim 43, wherein the step of treating the elastomer composite is performed using a pelletizer.
- 52. A method of packaging elastomer composite pieces in a container in accordance with claim 43, further including the step of passing the elastomer composite through an open mill to form a sheet of elastomer composite prior to the step of treating the elastomer composite.
- 53. A method of producing an elastomer composite blend, the method comprising providing a container wherein at least a portion of the container is occupied by elastomer composite pieces and wherein the occupied portion of the container has a void volume of at least 3%; and

blending the elastomer composite pieces with additional elastomer material comprising at least additional elastomer, to form an elastomer composite blend.

54. A method of producing an elastomer composite blend in accordance with claim 53, wherein the elastomer composite pieces are prepared by:

mixing elastomer latex with filler to form an elastomer composite and treating the elastomer composite to form elastomer composite pieces.

- 55. A method of producing an elastomer composite blend in accordance with claim 53, wherein the occupied portion of the container has a void volume of approximately 3% to approximately 40%.
- 56. A method of producing an elastomer composite blend in accordance with claim 53, wherein the additional elastomer comprises elastomer different from the elastomer of the elastomer composite.
- A method of producing an elastomer composite blend in accordance with claim 53, wherein the step of blending the elastomer composite pieces with the additional elastomer material comprises dry mixing the elastomer composite pieces with the additional elastomer material.



- 58. A method of producing an elastomer composite blend in accordance with claim 53, wherein the additional elastomer material comprises additional filler.
- 59. A method of producing an elastomer composite blend in accordance with claim 53, wherein the elastomer composite pieces include at least one additive selected from antiozonants, antioxidants, plasticizers, processing aids, resins, flame retardants, extender oils, lubricants, cure activators, and combinations thereof.
- 60. A method of producing an elastomer composite blend in accordance with claim 53, wherein the elastomer composite pieces have the form of short strips.
- 61. A method of producing an elastomer composite blend in accordance with claim 53, wherein the elastomer composite pieces have the form of pellets.
- 62. A method of producing an elastomer composite blend in accordance with claim 54, wherein the step of treating the elastomer composite is performed using a granulator.
- 63. A method of producing an elastomer composite blend in accordance with claim 54, wherein the step of treating the elastomer composite is performed using a pelletizer.
- 64. A method of producing an elastomer composite blend in accordance with claim 53, further including the step of passing the elastomer composite through an open mill to form a sheet of elastomer composite prior to the step of treating the elastomer composite.